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(21)Application number : **59-001411** (71)Applicant : **JUJO PAPER CO LTD**

(22)Date of filing : **10.01.1984** (72)Inventor : **HATA KUNIO**

**OSHIMA KIHACHIRO**

**MATSUI MOTOI**

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**(54) PREPARATION OF XYLITOL BY IMMOBILIZED MICROORGANISM**

(57)Abstract:

PURPOSE: To prepare efficiently xylitol, by immobilizing a microorganism having the ability to produce xylitol in a gelatinous carrier, and subjecting the immobilized carrier to contact reaction with a saccharide liquid.

CONSTITUTION: A microorganism, belonging to the genus *Candida*, *Trichosporon*, *Rhodosporidium* or *Saccharomyces*, and having the ability to produce xylitol is immobilized in a gelationus carrier, e.q. sodium alginate, k-carrageenan or polyacrylamide. The resultant immobilized microorganism is then continuously subjected to contact reaction with a 1W10% xylose solution to produce xylitol. The xylitol yield based on the xylose is about 50%.